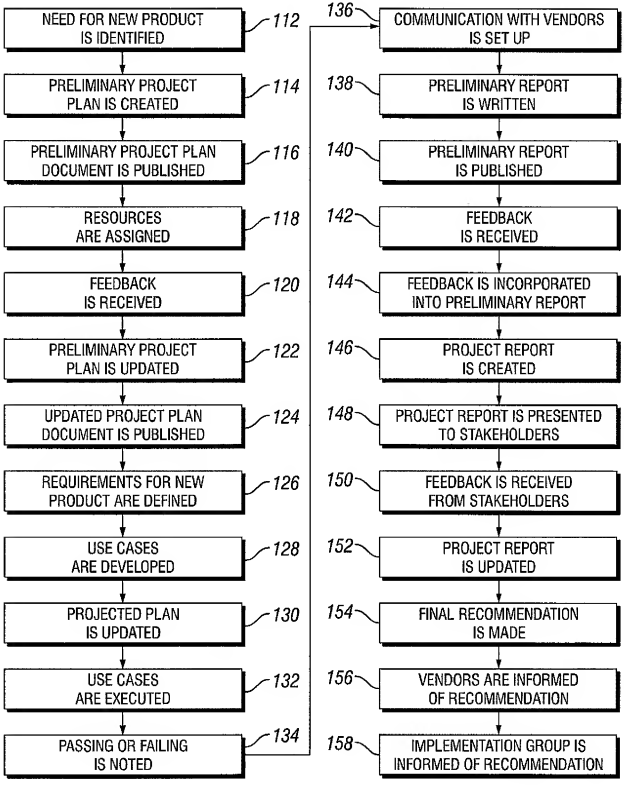
NEED FOR NEW PRODUCT IS IDENTIFIED
112
PRELIMINARY PROJECT PLAN IS CREATED
114
PRELIMINARY PROJECT PLAN DOCUMENT IS PUBLISHED
116
RESOURCES ARE ASSIGNED
118
FEEDBACK IS RECEIVED
120
PRELIMINARY PROJECT PLAN IS UPDATED
122
UPDATED PROJECT PLAN DOCUMENT IS PUBLISHED
124
REQUIREMENTS FOR NEW PRODUCT ARE DEFINED
126
USE CASES ARE DEVELOPED
128
PROJECTED PLAN IS UPDATED
130
USE CASES ARE EXECUTED
132
PASSING OR FAILING IS NOTED
134
136
COMMUNICATION WITH VENDORS IS SET UP
138
PRELIMINARY REPORT IS WRITTEN
140
PRELIMINARY REPORT IS PUBLISHED
142
FEEDBACK IS RECEIVED
144
FEEDBACK IS INCORPORATED INTO PRELIMINARY REPORT
146
PROJECT REPORT IS CREATED
148
PROJECT REPORT IS PRESENTED TO STAKEHOLDERS
150
FEEDBACK IS RECEIVED FROM STAKEHOLDERS
152
PROJECT REPORT IS UPDATED
154
FINAL RECOMMENDATION IS MADE
156
VENDORS ARE INFORMED OF RECOMMENDATION
158
IMPLEMENTATION GROUP IS INFORMED OF RECOMMENDATION

FIG. 1

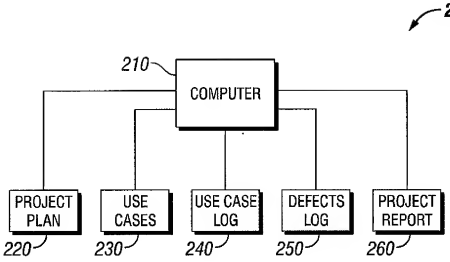
200
210
COMPUTER
PROJECT PLAN
220
USE CASES
230
USE CASE LOG
240
DEFECTS LOG
250
PROJECT REPORT
260

FIG. 2

COMMON INTEGRATION INFRASTRUCTURE SERVICES POC REQUIREMENTS

UNIQUE REQUIREMENT IDENTIFIER	PCS	GMG	LTD	310 RFI REFERENCE	316	312 COMMON INTEGRATION SCORECARD DIMENSIONS		314 USE CASE
						SYSTEM INTERFACE ADAPTER		
C17	H	H		3.7.1-1, 10	322	PROTOCOL CONNECTIVITY	340	
C1	H	H		3.7.1-1		RDBMS 330	342	SB-9
C2	H	H		3.7.1-1, 10	332	CORBA	344	SB-8
C3	H	H		3.7.1-1		J2EE/EJB 334		SB-1
C4	H	H		3.7.1-1	336	JMS		SB-7
						MQSERIES 338	346	SB-6
C5	H	H		3.7.1-6, 7	324	CORE CAPABILITY	348	
C6	H	H		3.7.1-6, 7		TRANSACTION SUPPORT		SB-11
C7	H	H		3.7.1-6, 7		ABILITY TO INTEGRATE WITH MB		SB-14
						ABILITY TO INTEGRATE WITH SB		SB-16
C8	H	H		3.7.1-12	326	CUSTOM DEVELOPMENT TOOLKIT PROVIDED		SB-19
C9	H			3.4.1-14	328	DEVELOPMENT EASE OF DEVELOPMENT		SB-19
					318	DATA TRANSFORMATION		
						SUPPORT OF STANDARD DATA FORMATS		
C10	H	H		3.7.2-2, 3		XML		SB-5
C11	H	H		3.7.2-2, 3		IDL		SB-5
C12	H	H		3.7.2-2, 3		JAVA OBJECT		SB-5
						EASE OF DATA TRANSFORMATION LOGIC SPECIFICATION		
C13	M		H	3.7.2-2		SUPPORTS CALL-OUT TO EXTERNAL LOGIC		SB-5
						PROTOCOL CONNECTIVITY		
C14	H	H	H	3.7.2-6		JAVA		SB-5
					320	TRANSACTION FALLOUT MANAGEMENT		
						GRAPHICAL FALLOUT LOGIC SPECIFICATION		
C15	H	H		3.7.5-1		GRAPHICAL SPECIFICATION OF PROCESS		SB-12
						SECURITY		
C16	H	H		3.10		SECURITY - USER AND ACL BASED		SB-13

FIG. 3

410	412	414	416	
6	SYSTEM INTERFACE ADAPTER (SIA)	SYSTEM INTERFACE ADAPTER WITH MQ INTERFACE	INTERFACE DEFINITION	SB1
			SYNCHRONOUS INVOCATION INTERFACE	SB8
			JAVA/RMI INTERFACE	SB11
			CAN INVOKE EXTERNAL SYSTEM INTERFACE ADAPTER	SB6
			DATA TRANSFORMATION	SB5
			MQ SERIES INTERFACE WITH SYSTEM INTERFACE ADAPTER	C4
			SUPPORT FOR FLOW SPECIFICATION	SB7
7	SYSTEM INTERFACE ADAPTER (SIA)	SYSTEM INTERFACE ADAPTER WITH JMS	INTERFACE DEFINITION	SB1
			SYNCHRONOUS INVOCATION INTERFACE	SB8
			JAVA/RMI INTERFACE	SB11
			CAN INVOKE EXTERNAL SYSTEM INTERFACE ADAPTER	SB6
			DATA TRANSFORMATION	SB5
			JMS INTERFACE WITH THE SYSTEM INTERFACE ADAPTER	C3
			SUPPORT FOR FLOW SPECIFICATION	SB7

420	418	422		
8	SIA	SYSTEM INTERFACE ADAPTER WITH CORBA AND COMPLEX FLOW	INTERFACE DEFINITION	SB1
		424	SYNCHRONOUS INVOCATION INTERFACE	SB8
		426	JAVA/RMI INTERFACE	SB11
		428	CAN INVOKE EXTERNAL SYSTEM INTERFACE ADAPTER	SB6
		430	DATA TRANSFORMATION	SB5
		432	CORBA INTERFACE WITH THE SYSTEM INTERFACE ADAPTER	C1
		434	SUPPORT FOR FLOW SPECIFICATION	SB7
9	SIA	SYSTEM INTERFACE ADAPTER WITH RDBMS	INTERFACE DEFINITION	SB1
			SYNCHRONOUS INVOCATION INTERFACE	SB8
			JAVA/RMI INTERFACE	SB11
			CAN INVOKE EXTERNAL SYSTEM INTERFACE ADAPTER	SB6
			DATA TRANSFORMATION	SB5
			DBMS INTERFACE WITH THE SYSTEM INTERFACE ADAPTER	
			SUPPORT FOR FLOW SPECIFICATION	SB7
10	SIA	SYSTEM INTERFACE ADAPTER WITH J2EE/EJB	INTERFACE DEFINITION	SB1
			SYNCHRONOUS INVOCATION INTERFACE	SB8
			JAVA/RMI INTERFACE	SB11
			CAN INVOKE EXTERNAL SYSTEM INTERFACE ADAPTER	SB6
			DATA TRANSFORMATION	SB5
			SYSTEM INTERFACE ADAPTER INTERFACE (J2EE/EJB)	C2
			SUPPORT FOR FLOW SPECIFICATION	SB7

FIG. 4

500 THE FOLLOWING CHART SHOWS IN DETAIL THE STATUS OF EACH USE CASE.

510 UC#	512 USE CASE ABSTRACT	514 USE CASE STATUS (P/F)	516 DETECT # LARGE/BOLD=> SEV 1 OR 2
SB 1	SB - RMI INTERFACE	PASS	
SB 2	SB - WEB SERVICES INTERFACE	PASS	24, 33
SB 3	SB - HTTP INTERFACE	FAIL	3, **17**
SB 4	SB - CORBA INTERFACE	FAIL	**5**, 12, 14, 19, 27
SB 5	SB - DATA TRANSFORMATION	PASS	16
SB 6	SIA - MQ SIA	PASS	34
SB 7	SIA - JMS SIA	PASS	7, 32
518 SB 8	520 SIA - CORBA SIA	522 FAIL	524 **5**
SB 9	SIA - RDBMS SIA	PASS	11, 25
SB 10	SIA - EJB SIA	FAIL	**20**, 21
SB 11	SB - TRANS MGMT	PASS	
SB 12	SB - TRANS FALLOUT	PASS	
SB 13	SB - SECURITY INTG	PASS	
SB 14	SB - MB INTEGRATION	FAIL	**6**
SB 15	SB - AGGREGATE	PASS	
SB 16	SB - PERFORMANCE	FAIL	**43**, 45, **46**, **47**, 48, **49**, 51, **52**, 54
SB 17	SB - AVAILABILITY	INCOMPLETE	9, 28
SB 18	SB - NAMING SVC INTG	PASS	
SB 19	SIA - EASE OF DEVELOPMENT	PASS	
SB 20	DATA TRANSFORMATION EASE OF DEVELOP.	PASS	
SB 21	SB - EASE OF DEVELOPMENT	PASS	29, 31, 36, 37, 41
SB 22	SB - EASE OF DEPLOYMENT	PASS	8, 30, 40

FIG. 5

612

USE CASE #8: SYSTEM INTERFACE ADAPTER WITH CORBA INTERFACE

BRIEF DESCRIPTION 614

THIS FUNCTIONALITY ALLOWS A CLIENT APPLICATION TO USE A SERVICE PROVIDED BY A BACK-OFFICE APPLICATION THAT EXPOSES A CORBA INTERFACE.

REQUIREMENT CROSS REFERENCE 616

INTERFACE DEFINITION	SB1
SYNCHRONOUS INVOCATION INTERFACE	SB8
JAVA/RMI INTERFACE	SB11
CAN INVOKE EXTERNAL SYSTEM INTERFACE ADAPTER	SB6
SYSTEM INTERFACE ADAPTER CORBA INTERFACE	C1
SUPPORT FOR FLOW SPECIFICATION	SB7

IMPORTANCE 618

THE SYSTEM INTERFACE ADAPTER (SIA) IS A TECHNOLOGY ASSOCIATED WITH SERVICE BROKERING THAT ALLOWS FOR THE INTEGRATION OF BACK OFFICE APPLICATIONS WITH APPLICATIONS USING OTHER TECHNOLOGIES. THE SERVICE BROKERING ALLOWS FOR SUCH INTEGRATION VIA SIAS. A CLIENT APPLICATION MAY USE ONE TECHNOLOGY TO INTERFACE WITH A BACK-OFFICE APPLICATION SAY JAVA/RMI AND THE BACK OFFICE APPLICATION CAN EXPOSE AN INTERFACE USING DIFFERENT TECHNOLOGY, SAY CORBA.

A CORBA SIA IS PARTICULARLY IMPORTANT TO SPRINT DUE TO SPRINT'S CURRENT USE BY BACK-OFFICE APPLICATIONS AND IT'S COMPLIANCE WITH INDUSTRY STANDARD SPECIFICATIONS.

STATUS 620

FAIL

REASON(S) FOR FAILURE 622

POC0005: CROSSWORLDS CORBA CONNECTOR DOES NOT SUPPORT UNIONS AND SEQUENCES. THIS IMPACTS BOTH CLIENT AND SERVER SIDE CONNECTORS. MOST OF THE EXISTING INTERFACES IN SPRINT USE SEQUENCES EXTENSIVELY IN BOTH IN, OUT, IN/OUT AND RETURN VALUES. THE USE OF UNIONS IN OUR IDL INTERFACES IS MUCH SMALLER WHEN YOU COMPARE IT TO SEQUENCES.

WORKAROUND(S) IF ANY 624

NEED TO MODIFY EXISTING INTERFACES TO REMOVE SEQUENCES AND INSTEAD SOMEHOW RETURN ONE DATATYPE (LIKE AN XML STRING). THIS WOULD REQUIRE A LOT OF RETOOLING OF OUR BACKEND EXISTING INTERFACES.

LEVEL OF EFFORT (LOE) FOR WORKAROUND 626

N/A

FIG. 6